

ABSTRACT

An optical film(3) of the invention comprises a polarizing plate(1), in which a transparent protective film(1b) is laminated on both sides of a polarizer(1a), and plural retardation films(2) so that an absorption axis of the polarizing plate(1) is perpendicular or parallel to slow axes of the plural retardation films(2) and the slow axes of the plural retardation films(2) are parallel to one another.

An Nz value expressed by $Nz = (nx_1 - nz_1)/(nx_1 - ny_1)$ is in the range of from 0.15 to 0.85 and an in-plane retardation Re_1 expressed by $Re_1 = (nx_1 - ny_1) \times d_1$ is in the range of from 200 to 350 nm, where in each of the plural retardation films, a direction along with the refractive index in the film plane is maximum is defined as the X-axis, a direction perpendicular to the X-axis as the Y-axis, the thickness direction of the film as the Z-axis, and where refractive indices in each axial direction are defined as nx_1 , ny_1 , and nz_1 , respectively, and the thickness of the film as d_1 (nm). The optical film may realize an easily viewable display with high contrast ratio in a wide range and may provide a retardation value stabilized under conditions of high temperature or high humidity